

DERWENT-ACC-NO: 1976-67456X

DERWENT-WEEK: 197636

COPYRIGHT 2006 DERWENT INFORMATION LTD

TITLE: High strength sintered titanium alloy - contg. copper and tin and or aluminium

PATENT-ASSIGNEE: SUMITOMO ELECTRIC IND CO[SUME]

PRIORITY-DATA: 1973JP-0099325 (September 5, 1973)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	MAIN-IPC
JP 50051011 A		May 7, 1975	N/A
000	N/A		
JP 81008902 B		February 26, 1981	N/A
000	N/A		

INT-CL (IPC): B22F000/00, C22C001/04 , C22C014/00

ABSTRACTED-PUB-NO: JP 50051011A

BASIC-ABSTRACT:

A Ti alloy Powder mixt. contg. 0.5-8 Cu and 0.5-10% Sn and/or Al is compacted and liq. phase sintered at a low temp. for a short time. In an example, a Ti alloy powder contg. Cu 4, Al 2, and Sn 2% was compacted to 90% theor. density and vacuum sintered 30 min. at 1200 degrees. The resulting alloy had a tensile strength of 58 kg/mm<sup>3</sup>, elongation 3.7%, and charpy impact energy 2.2 kg-m/cm<sup>2</sup>. Corresp. properties of a sintered Fe-4% Cu were 33 kg/mm<sup>2</sup>, 2.2% and 1.0 kg-m/cm<sup>2</sup>.

TITLE-TERMS: HIGH STRENGTH SINTER TITANIUM ALLOY CONTAIN COPPER TIN ALUMINIUM

DERWENT-CLASS: M22 M26 P53



CPI-CODES: M26-A02; M26-B06;